

WHAT IS CLAIMED IS:

- 1           1.       A method of creating a custom database in a data store connected to a computer,  
2 the method comprising:  
3           receiving a system description of a structure of the custom database to be created;  
4           generating the structure for the custom database based on the system description; and  
5           generating a search engine based on the system description, wherein the search engine  
6 stores and locates data in the custom database.
- 1           2.       The method of claim 1, further comprising generating a user interface to access  
2 the custom database.
- 1           3.       The method of claim 1, further comprising modifying the system description and  
2 generating a new structure and search engine that are transparent.
- 1           4.       The method of claim 1, wherein the system description defines a mapping of one  
2 or more abstract objects to a physical representation in the structure of the custom database.
- 1           5.       The method of claim 1, wherein the structure stores data to form a relational  
2 database.
- 1           6.       The method of claim 1, wherein the system description comprises a markup  
2 language file.
- 1           7.       The method of claim 6, wherein the markup language file comprises an extensible  
2 markup language (XML) document.
- 1           8.       The method of claim 7, wherein the XML document is created using a text editor.

1           9.       The method of claim 7, wherein the XML file is created using a graphical user  
2 interface.

1           10.      The method of claim 1, wherein the search engine locates data within the custom  
2 database.

1           11.      The method of claim 1, wherein the search engine comprises a text search engine.

1           12.      The method of claim 1, wherein the search engine comprises a high level  
2 language.

1           13.      The method of claim 12, wherein the high level language comprises Java.

1           14.      An apparatus for creating a custom database comprising:  
2                   a computer having a data store connected thereto, wherein the data store stores  
3 data; and  
4                   one or more computer programs, performed by the computer, for receiving a  
5 system description of a structure of the custom database to be created, for generating the  
6 structure for the custom database based on the system description, and for generating a search  
7 engine based on the system description, wherein the search engine stores and locates data in the  
8 custom database.

1           15.      The apparatus of claim 14, further comprising generating a user interface to  
2 access the custom database.

1           16.      The apparatus of claim 14, further comprising modifying the system description  
2 and generating a new structure and search engine that are transparent.

1           17.      The apparatus of claim 14, wherein the system description defines a mapping of  
2 one or more abstract objects to a physical representation in the structure of the custom database.

1           18.     The apparatus of claim 14, wherein the structure stores data to form a relational  
2     database.

1           19.     The apparatus of claim 14, wherein the system description comprises a markup  
2     language file.

1           20.     The apparatus of claim 19, wherein the markup language file comprises an  
2     extensible markup language (XML) document.

1           21.     The apparatus of claim 20, wherein the XML document is created using a text  
2     editor.

1           22.     The apparatus of claim 20, wherein the XML document is created using a  
2     graphical user interface.

1           23.     The apparatus of claim 14, wherein the search engine locates data within the  
2     custom database.

1           24.     The apparatus of claim 14, wherein the search engine comprises a text search  
2     engine.

1           25.     The apparatus of claim 14, wherein the search engine comprises a high level  
2     language.

1           26.     The apparatus of claim 25, wherein the high level language comprises Java.

1           27.     An article of manufacture comprising a computer program carrier readable by  
2     a computer and embodying one or more instructions executable by the computer to perform steps  
3     for creating a custom database, comprising:

4           receiving a system description of a structure of the custom database to be created;

5 generating the structure for the custom database based on the system description; and  
6 generating a search engine based on the system description, wherein the search engine  
7 stores and locates data in the custom database.

1 28. The article of manufacture of claim 27, further comprising generating a user  
2 interface to access the custom database.

1 29. The article of manufacture of claim 27, further comprising modifying the system  
2 description and generating a new structure and search engine that are transparent.

1 30. The article of manufacture of claim 27, wherein the system description defines  
2 a mapping of one or more abstract objects to a physical representation in the structure of the  
3 custom database.

1 31. The article of manufacture of claim 27, wherein the structure stores data to form  
2 a relational database.

1 32. The article of manufacture of claim 27, wherein the system description comprises  
2 a markup language file.

1 33. The article of manufacture of claim 32, wherein the markup language file  
2 comprises an extensible markup language (XML) document.

1 34. The article of manufacture of claim 33, wherein the XML document is created  
2 using a text editor.

1 35. The article of manufacture of claim 33, wherein the XML file is created using a  
2 graphical user interface.

1 36. The article of manufacture of claim 27, wherein the search engine locates data

